IFW



In re Application of

PATENT

Norbert WEBER

Serial No.: 10/588,821

Art Unit:

Filed: August 9, 2006

Examiner:

For: **HYDRAULIC ACCUMULATOR**

SUBMISSION OF ENGLISH LANGUAGE PRELIMINARY EXAMINATION REPORT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is an English language Preliminary Examination Report for the above-identified application.

Respectfully submitted,

Mark S. Bicks

Reg. No. 28,770

Roylance, Abrams, Berdo & Goodman, LLP 1300 19th Street, NW, Suite 600 Washington, DC 20036 (202)659-9076

Dated: May 8, 2007

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

То:			
•	Bartels und Partner Patentanwälte		
Lange Str. 51	Eingegangen: PABINGP 15. NOV. 2006		
70174 Stuttgart ALLEMAGNE	TERMIN		

Date of mailing (day/month/year)
09 November 2006 (09.11.2006)

Applicant's or agent's file reference 40cdh/229329/PCT

International application No. PCT/EP2005/002458

IMPORTANT NOTIFICATION

International filing date (day/month/year) 09 March 2005 (09.03.2005)

Applicant

HYDAC TECHNOLOGY GMBH et al

	Transmittal	of the	translation	to	the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Agnes Wittmann-Regis

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70

2

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 40cdh/229329/PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/EP2005/002458	International filing date (day/month/year) 09 March 2005 (09.03.2005)	Priority date (day/month/year) 16 April 2004 (16.04.2004)	
International Patent Classification (8 See relevant information in Form	th edition unless older edition indicated) PCT/ISA/237		
Applicant HYDAC TECHNOLOGY GMBH			

			·	
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total	al of 7 sheets, including this c	over sheet.	
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	This report contains indications	relating to the following item	ns:	
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinapplicability	nion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of invention	1	
	Box No. V	Reasoned statement under applicability; citations and	r Article 35(2) with regard to novelty, inventive step or industrial dexplanations supporting such statement	
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the inter	rnational application	
	Box No. VIII	Certain observations on the	ne international application	
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).			
			Date of issuance of this report 01 November 2006 (01.11.2006)	
	The International Bure 34, chemin des Colo	·· · · - · · - ·	Authorized officer	
	1211 Geneva 20, Sw		Agnes Wittmann-Regis	
acsimile No. +41 22 338 82 70			e-mail: pt06@wipo.int	

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See Form PCT/ISA/210 Date of mailing (day/month/year) (sheet 2) Applicant's or agent's file reference FOR FURTHER ACTION 40cdh/229329/PCT See paragraph 2 below International application No. International filing date (dawmonth/year) Priority date (day/month/year) PCT/EP2005/002458 09.03.2005 16.04.2004 International Patent Classification (IPC) or both national classification and IPC F15B1/24 Applicant HYDAC TECHNOLOGY GMBH This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer Facsimile No. Telephone No.

International application No.

.PCT/EP2005/002458

Box	No. I	Basis of this opi	aion '
1.	With refiled, u	egard to the language, t nless otherwise indicate	his opinion has been established on the basis of the international application in the language in which it was d under this item.
	П	his opinion has been est	tablished on the basis of a translation from the original language into the following language
			, which is the language of a translation furnished for the purposes of international search (under
		ule 12.3 and 23.1(b)).	
2.	With re	egard to any nucleotid on, this opinion has been	e and/or amino acid sequence disclosed in the international application and necessary to the claimed nestablished on the basis of:
	a. ty	pe of material	
		a sequence listing	
		table(s) related to th	e sequence listing
	b. fo	rmat of material	
	Г	in written format	
	F	in computer readabl	e form
	سا		
	c. ti	ne of filing/furnishing	
	Ļ	_	ernational application as filed.
	Ļ	_	he international application in computer readable form.
	L	furnished subsequen	atly to this Authority for the purposes of search.
3.	ru	rnished, the required sta	nat more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or a tements that the information in the subsequent or additional copies is identical to that in the application as d the application as filed, as appropriate, were furnished.
4.	Addition	ial comments:	
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International application No.
PCT/EP2005/002458

В	ox No.	IV Lack of unity of invention
1.		In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has: paid additional fees paid additional fees under protest not paid additional fees
2.		This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	Thi	s Authority considers that the requirement of unity of invention in accordance with Rules 13.1. 13.2 and 13.3 is complied with not complied with for the following reasons: 1. The first invention (claims 1, 3-11) relates to a
		hydraulic accumulator having a lid-like closure part. 2. The second invention (claims 2, 12-13) relates to a hydraulic accumulator having an end part formed in one piece.
		3. The two inventions certainly solve the same problem, namely to produce a lightweight hydraulic accumulator without the need for a lot of material. However, this problem is generally known and therefore cannot be regarded as a "special technical feature" within the meaning of PCT Rule 13.2.
4 .	Cons	equently, this opinion has been established in respect of the following parts of the international application: all parts the parts relating to claims Nos.

International application No.
PCT/EP2005/002458

Statement Creations and Expr		pporting such statement	
Novelty (N)		2 11	
Novelly (N)		3-11 1,2,12,13	YES
	Claims	1,2,12,13	- NO
Inventive step (IS)		3-11	YES
	Claims	1,2,12,13	NO
Industrial applicability (IA)	Claims	1,3-11	YES
	Claims	·	
Citations and explanations:			
Reference is ma	de to	the following documents:	
	ae co	the forfowing documents:	
D1: DE 101 61 7	97 C1	(HYDAC TECHNOLOGY GMBH) 31 July 2003	
(2003-07-31		(MIDIO IDEMNOLOGI GMBH) 31 Udiy 2003	
	•	MACCHINENER DRIVE HANGUED D. C. CORUNA CORUNA	
		MASCHINENFABRIK HAUSHERR R & SOEHNE GME	3H)
		(1974-11-28)	
		GREER HYDRAULICS INC) 8 November 1978	
(1978-11-08			
D6: US-A-5 365	736 ()	YAMAMOTO ET AL.) 22 November 1994 (1994	-
11-22)			
D7: US-A-4 351	363 (F	HAUG <i>ET AL.</i>) 28 September 1982 (1982-09) —
28)			
4. D1 shows all	the f	features of claim 1, namely:	
a hydraulic acc	umulat	or having an accumulator housing 29 in	ı
the form of a to	ube, i	in which a separating element 21 movabl	.e
in the axial dia	rectio	on of the latter separates pressure spa	ces
		ch adjoin said separating element 21 on	
		nich the tube is closed off at least at	
		e closure part 23 which has a bearing	-

surface for connecting to the relevant end edge of the tube, the bearing surface having a surface part in the form of an annular surface 37, which projects axially into the interior

International application No.
PCT/EP2005/002458

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

of the tube and is intended for the positive-locking support of the tube wall against radial forces, and also an annular surface which extends in the radial direction and is intended for the positive-locking support of the tube wall against axial forces (see figure 2 and the associated paragraphs 19 and 21).

- 5. D2 is likewise prejudicial to the novelty of claim 1 (see in particular the tubular accumulator housing 1 and the lid 2 or 4, which has two annular surfaces for supporting the tube wall against axial or radial forces, respectively).
- 6. D5 shows all the features of claim 2, namely:
 a hydraulic accumulator (see figures 1 and 4) having an
 accumulator housing in the form of a tube 11, 11', in which a
 separating element 13 movable along the longitudinal axis of
 the latter separates pressure spaces from one another which
 adjoin said separating element 13 on both sides, and in which
 the tube is closed off at one end by an end part formed in one
 piece from the wall of the tube by hot forming (see page 2,
 line 98), a region which is adjacent to and concentric to the
 longitudinal axis being formed on the end part, this region
 being intended for forming a curved dome 22, 22' forming a
 prominence of the end part.
- 7. Claim 2 cannot be regarded as inventive over D6 (see figure 1) or D7 (see figure 4). Both documents disclose an end part formed in one piece from the wall of a tube and having a dome. The production of the end part is not described in the two documents. However, production by hot forming will be regarded merely as a conventional measure.

International application No.
PCT/EP2005/002458

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 8. The subject matter of claims 3-11 is neither known from nor suggested by the prior art.
- 9. The features introduced by claim 12 are obviously known from D5, D6 and D7.
- 10. The features introduced by claim 13 are known from D5 (see figure 3).